



CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: July 15, 2008

TO: Mayor and Councilmembers

FROM: Engineering Division, Public Works Department

SUBJECT: Contract For Design Services For The Laguna Channel Storm Water Pump Station Engine Replacements

RECOMMENDATION:

That Council authorize the Public Works Director to execute a contract with Carollo Engineers, Inc. (Carollo), in the not-to-exceed amount of \$52,000 for design services, and \$5,200 for extra services for necessary changes in the scope of work, for the design of the replacement of two storm water pump engines at the Laguna Channel Storm Water Pump Station.

DISCUSSION:

BACKGROUND

The Laguna Drainage System is a complex network of storm drains, open channels, pumps, and tide gates that provide flood protection for a substantial portion of the community. The pump station is located between Cabrillo Boulevard and the beach at the terminus of the Laguna Channel.

Storm water within the channel flows through a debris rack and into a concrete wet well, housing two large capacity pumps. The pumps deliver water around the tide gates and to a concrete channel that discharges into a beach pond that is currently merged with the Mission Creek Lagoon. During high tide, the gates must remain closed and the entire Laguna Drainage System must rely on the pumping capacity of the station for flood protection. During low tide, the pumps work in conjunction with tide gates to provide flood protection for the Laguna Channel.

The existing capacity of the pump station is not sufficient to convey runoff from extreme storm events during high tides. An increase in the capacity of the pump station will provide a flood protection benefit to the entire Laguna Drainage System.

PROJECT DESCRIPTION

The existing pumps were replaced in 2003. The existing natural gas engines are over 40 years old and must be replaced in order to take full advantage of the pump capacity.

The work consists of design phase services, including an analysis of the existing and proposed operating conditions, selection of new natural gas fueled engines that will take full advantage of the pump capacity, and design of potential wet well modifications. The work may increase the capacity of the pump station by up to 50 percent.

Staff has developed a project schedule that allows for construction to be completed before the typical heavy winter rainfall season. However, adherence to this schedule depends on the delivery time for new engines, currently estimated at 16 weeks.

DESIGN PHASE CONSULTANT ENGINEERING SERVICES

Carollo will design the Laguna Channel Storm Water Pump Station engine replacements and provide all contract documents (bid documents, technical specifications, and engineering drawings) necessary to solicit bids for construction. Carollo has submitted an acceptable proposal. Carollo was selected as part of a Request For Proposal process that included several participants in the City's Prequalified Engineering Services Program. Carollo's knowledge, experience, and success working on similar projects makes them well qualified to perform the design work proposed.

Staff recommends that Council authorize the Public Works Director to execute a contract with Carollo in the not-to-exceed amount of \$52,000 for design services, and \$5,200 for potential unforeseen changes in the scope of work.

FUNDING

Funds for this phase of the project are budgeted in the Streets Capital Program. Construction costs are currently estimated at \$377,500 and are budgeted from the Fiscal Year 2009 Streets Capital Program.

The following summarizes all estimated total project costs:

ESTIMATED TOTAL PROJECT COST

Design (by Contract)	\$57,200
Other Design Costs - City staff	\$15,000
<i>Subtotal</i>	\$72,200
Estimated Construction Contract w/Change Order Allowance	\$357,500
Estimated Construction Management/Inspection (by Contract or City)	\$20,000
<i>Subtotal</i>	\$377,500
TOTAL PROJECT COST	\$449,700

There are sufficient funds in the Streets Capital Program to cover these costs.

SUSTAINABILITY IMPACT:

This phase of the project is for design services only. The completed construction project will continue to use natural gas, a clean fuel option, to power the engines. The new pump system is anticipated to operate more efficiently than the existing system and lessen impacts due to flooding.

PREPARED BY: John Ewasiuk, Principal Civil Engineer/BD/mj

SUBMITTED BY: Christine F. Andersen, Public Works Director

APPROVED BY: City Administrator's Office